



PRODUCT DATA APPROVAL SHEET

Core-CF139ETD3913

Cosmo Ferrites Ltd. -INDIA

Appearance & Shape: To be free from any defect such as flow, burrs, unevenness etc, as per IEC standards.

Effective Parameters irrespective of material Grade (per set)

Parameter	Value	Unit
Effective Length (L_e):	92.2	mm
Effective Area (A_e):	125.0	mm ²
Effective Area (A_{min}):	123.0	mm ²
Effective Volume (V_e):	11500	mm ³
Approximate weight(m):	57	G/set



"Clamping force for AL measurement is 40 ±20 N, unless otherwise stated"

ETD3913 Un-Gapped (OL)

Test Conditions: 1kHz/1mT/CFR COIL, N=100/25°C

Material Grade	Initial Permeability (μ_{iDC})	AL Value nH	μ_e Approx. /Set	P_v (W/set) (25kHz,200mT, 100°C)	P_v (W/set) (100kHz,100mT, 100°C)	P_v (W/set) (100kHz,200mT, 100°C)	Ordering code
CF139	2100±20%	2950 +30%/-20%	≈1742	≤ 1.35	≤ 1.15	≤ 6.0	CF139ETD3913 OL

ETD3913 Gapped

Test Conditions: 1kHz/300mV/CFR COIL, N=100/25°C

Material Grade	Gap Value mm/Pc	S, T		D		Ordering code
		AL(nH) Approx. /Set	μ_e Approx./Set	AL(nH) Approx. /Set	μ_e Approx./Set	
CF139	0.1 ±0.02	≈ 1062	≈ 624	≈ 639	≈ 375	CF139 ETD3913 G 0.1 S/T/D
CF139	0.2 ±0.02	≈ 639	≈ 375	≈ 384	≈ 225	CF139 ETD3913 G 0.2 S/T/D
CF139	0.3 ±0.04	≈ 474	≈ 278	≈ 285	≈ 167	CF139 ETD3913 G 0.3 S/T/D
CF139	0.4 ±0.04	≈ 384	≈ 225	≈ 231	≈ 136	CF139 ETD3913 G 0.4 S/T/D
CF139	0.5 ±0.05	≈ 326	≈ 191	≈ 196	≈ 115	CF139 ETD3913 G 0.5 S/T/D
CF139	0.6 ±0.05	≈ 285	≈ 167	≈ 171	≈ 100	CF139 ETD3913 G 0.6 S/T/D
CF139	1.0 ±0.05	≈ 196	≈ 115	≈ 117	≈ 69	CF139 ETD3913 G 1.0 S/T/D
CF139	1.3 ±0.05	≈ 162	≈ 95	≈ 97	≈ 57	CF139 ETD3913 G 1.3 S/T/D
CF139	2.5 ±0.05	≈ 100	≈ 59	≈ 70	≈ 40	CF139ETD3913 G 2.5 S/T/D

